

# **F Tank Farm Status**

**Presented to  
Citizens Advisory Board  
Waste Management Committee**

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# Acronyms

CAB	Citizens Advisory Board
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
DOE	Department of Energy
EPA	Environmental Protection Agency
FFA	Federal Facility Agreement
NAS	National Academies of Science
NDAA	National Defense Authorization Act for Fiscal Year 2005
NRC	Nuclear Regulatory Commission
PA	Performance Assessment
RAI	Request for Additional Information
SCDHEC	South Carolina Department of Health and Environmental Control
SRS	Savannah River Site
WD	Waste Determination per Section 3116 of the NDAA
WMC	Waste Management Committee

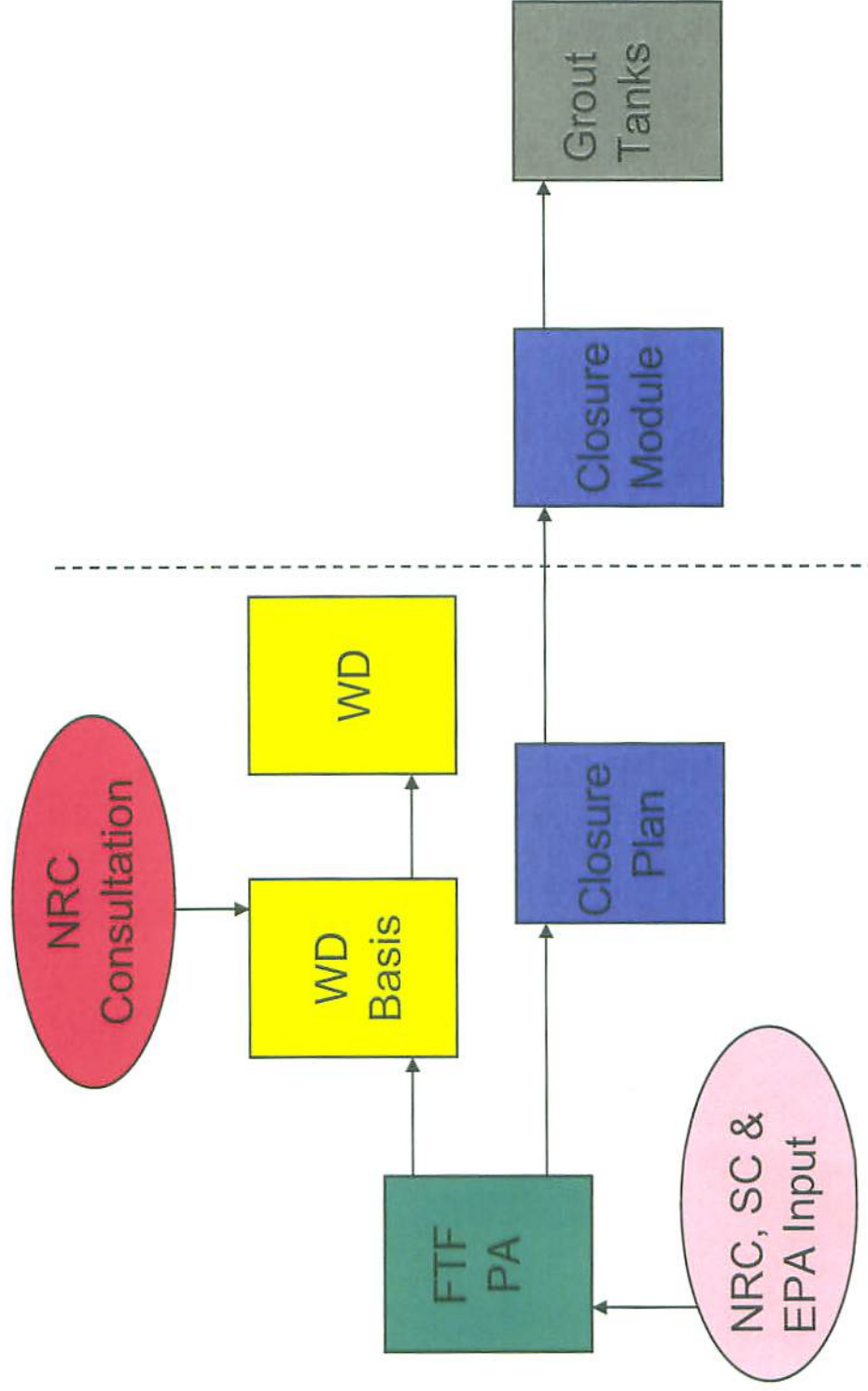


# Presentation Overview

- Tank Closure Process Status
- F Tank Farm Performance Assessment Scoping
  - Meetings
  - Process
  - Topics
  - Lessons Learned
- Upcoming Activities and Schedule



# Tank Closure Process Status





# FTF PA Scoping Meetings

- Provided forum for open technical discussions and interchange between DOE, SCDHEC, NRC, EPA, and contractors
- Input parameters and approaches for analyzing the facility performance were discussed
- Eight meetings between February 2007 and January of 2008
- Minutes documented on DOE website:

<http://www.em.doe.gov/Pages/3116Summaries.aspx>



# Scoping Meeting Process

- “Input Packages” of proposed approaches and data supplied about four weeks before meetings
- Meetings involved technical staff of various agencies
- Predominately met in Columbia, SC
- Excellent exchange of information between the technical staffs
- There was no “approval” of the inputs and approaches but received candid comments and concerns





# Scoping Meeting Topics

- Closure Cap
- Exposure Pathways
- Radiological Screening
- Bioaccumulation Factors and Consumption Rates
- Risk Assessment Approach
- Hydrogeology
- Waste Tank and Ancillary Equipment Design
- Waste Release Mechanisms
- Modeling Code Integration
- Dose Conversion Factors
- Integrated Conceptual Model
- Residual Inventory
- Grout/Concrete Testing Properties
- Tank Liner Life Estimates
- PORFLOW Model
- GoldSim Model
- Sensitivity and Uncertainty Analyses



# Scoping Meeting Lessons Learned

- Scoping meetings provide excellent opportunity to discuss technical topics early
- Meeting preparation was labor intensive
- Process is time consuming
- Increased quality of FTF PA and technical basis of analysis





# Upcoming Activities and Schedule

- DOE issue FTF PA to NRC, SCDHEC and EPA by August 2008
  - Public educational forum on Performance Assessments TBD
- Complete mechanical cleaning of Tanks 18 and 19 by December 2008
- Complete oxalic acid cleaning of Tanks 5 and 6 by December 2008



# Summary

- Progress toward tank closures
  - Waste Removal ongoing for Tanks 18, 19, 5, and 6.
  - Documentation to support closure decisions
    - FTF PA available this summer
    - FTF WD ~ Fall 2009
    - FTF Closure Plan ~ Fall 2009
- Questions?

